

conditions in predetermined directions, the light guide elements being joined in one piece to form a light guide body.

13. (New) The sensor unit according to claim 12, wherein the sensor unit is for automatic switching of lighting devices in a motor vehicle.

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cont.
14. (New) The sensor unit according to claim 12, wherein the at least two sensors include at least three sensors detecting light from predetermined directions.

15. (New) The sensor unit according to claim 13, wherein at least one of the sensors is aligned with a predetermined direction in a direction of travel of the vehicle.

16. (New) The sensor unit according to claim 13, wherein at least one of the sensors detects lighting conditions in a predetermined direction and forms an angle with a straight line in a direction of travel of the vehicle.

17. (New) The sensor unit according to claim 13, wherein the at least two sensors include two sensors on each side each enclosing an angle with a straight line pointing in a direction of travel and having a common light-sensitive sensor element.

18. (New) The sensor unit according to claim 12, wherein the light guide elements are joined such that there is a smooth transition between the light guide elements.

19. (New) The sensor unit according to claim 12, wherein the light guide elements include light detection cones that overlap.

20. (New) The sensor unit according to claim 12, wherein the sensor elements distinguish between daylight and artificial light.

21. (New) The sensor unit according to claim 12, further comprising an analyzer unit for distinguishing between daylight and artificial light.